

WHAT IS CLAIMED IS:

1. A fixing ring for fixing a dispenser member on a neck of a receptacle containing a substance to be dispensed, said fixing ring being annular and comprising a bottom portion and top portion, said bottom portion including fixing means for fixing said ring to said neck and said top portion including an opening for the dispenser member and means for securing said member on said neck, said top portion further including at least one guide wall element extending vertically parallel to the longitudinal axis of the dispenser member and around the periphery of said fixing ring substantially in line with said fixing means of said bottom portion.
2. A fixing ring according to claim 1 wherein said fixing means of said ring are snap-fastening means.
3. A fixing ring according to claim 2 wherein said snap-fastening means of said ring are snap-fastening tabs.
4. A fixing ring according to claim 1, wherein said guide wall element is a continuous, guiding, annular crown.
5. A fixing device for fixing a dispenser member to the neck of a receptacle containing a substance to be dispensed, said device comprising: an annular fixing ring provided with snap-fastening means designed to snap-fasten to said neck of the receptacle and an annular hoop which has an inside diameter that is substantially equal to the outside diameter of the fixing ring and that can be engaged in a force fit on said fixing ring to prevent said snap-fastening means from splaying apart, said fixing ring comprising a bottom portion and a top portion, said bottom portion including said snap-fastening means for snap-fastening to said neck, said top portion including an opening for

the dispenser member and means for holding it securely to said neck, said top portion further including at least one guide wall element extending vertically parallel to the longitudinal axis of the dispenser member around the periphery of said fixing ring and substantially in line with snap-fastening means of said bottom portion.

6. A fixing device according to claim 5 wherein said snap-fastening means of said ring are snap-fastening tabs.

7. A fixing device according to claim 5 wherein said guide wall element is a continuous, guiding annular crown.

8. A fixing device for fixing a dispenser member to the neck of a receptacle containing a substance to be disposed, said device comprising: an annular fixing ring provided with snap-fastening means designed to snap-fasten said ring to said neck of the receptacle and an annular hoop defining an annular side wall which has at least a portion with an inside diameter substantially equal to the outside diameter of the fixing ring and which can be engaged in a force fit on said fixing ring to prevent said snap-fastening means from splaying apart, said fixing ring comprising a bottom portion and a top portion, said bottom portion including said snap-fastening means for engaging said neck, said top portion including an opening for the dispenser member and means for holding it securely to said neck, said top portion further including at least one guide wall element extending vertically parallel to the longitudinal axis of the dispenser member around the periphery of said fixing ring substantially in line with said snap-fastening means of said bottom portion, said hoop including at least one projection that is located on the inside face of its side wall and that extends

vertically over at least a fraction of the height of said side wall, the inside diameter of said hoop at said at least one projection being slightly less than the outside diameter of said fixing ring.

5 9. A fixing device according to claim 8 wherein said snap-fastening means of said ring are snap-fastening tabs.

10 10. A fixing device according to claim 8 wherein said guide wall element is a continuous, guiding, annular crown.

11. A fixing device according to claim 8 wherein said at least one projection is a rib.

15 12. A fixing device according to claim 8 wherein said hoop has an annular side wall and wherein said at least one projection is formed by an indentation in said side wall.

20 13. A fixing device according to claim 8 wherein said hoop has an annular side wall and wherein said hoop includes a plurality of projections uniformly distributed around the inside face of said side wall.

14. A fixing device according to claim 8 wherein said projection is an annular shoulder extending horizontally around the inside circumference of said hoop.

25 15. A fixing device according to claim 8 wherein said hoop consists of a material that is harder than that of said fixing ring.

30 16. A fixing device according to claim 15 wherein said hoop consists of metal and said fixing ring consists of a plastic material.

17. A fixing device according to claim 8 wherein said at least one projection extends vertically from the top end of said hoop to a point situated more than halfway down the height of said hoop.

18. A fixing device for fixing a dispenser member to the neck of a receptacle containing a substance to be dispensed, the fixing device comprising: an annular fixing ring provided with snap-fastening means designed to snap-fasten said ring to said neck of the receptacle and an annular hoop having an annular side wall whose inside diameter is substantially equal to the outside diameter of said fixing ring and which can be engaged in a force fit on said fixing ring to prevent said snap-fastening means from splaying apart, said fixing ring comprising a bottom portion and a top portion, said bottom portion including said snap-fastening means for snap-fastening to said neck, said top portion including an opening for the dispenser member and means for holding it securely to said neck, said top portion further including at least one guide wall element extending vertically parallel to the longitudinal axis of the dispenser member around the periphery of said fixing ring substantially in line with said snap-fastening means of said bottom portion, said hoop including at least one projection on the inside face of its side wall, said projection extending obliquely over at least a fraction of the height of said side wall, the inside diameter of said hoop at said at least one projection being slightly less than the outside diameter of said fixing ring.

19. A fixing device according to claim 18 wherein said snap-fastening means of said ring are snap-fastening tabs.

20. A fixing device according to claim 18 wherein said guide wall element is a continuous, guiding, annular crown.

21. A fixing device according to claim 18 wherein the inside face of said annular side wall of said hoop is provided with a single oblique projection

extending substantially over a full turn of the circumference of said annular wall.

22. A fixing device according to claim 18 wherein the inside face of said annular side wall of said hoop is provided with a plurality of parallel oblique projections distributed around its circumference.

23. A fixing device according to claim 18 wherein said at least one projection has the form of a rib.

24. A fixing device according to claim 18 wherein said at least one projection is formed by an indentation in said hoop side wall.

25. A method of fixing a dispenser member to the neck of a receptacle containing a substance to be dispensed, the method comprising the following steps:
placing an annular fixing ring on said dispenser member, said annular fixing ring being provided at one end with snap-fastening means and at its opposite end with a guide wall extending in line with said snap-fastening means parallel to the longitudinal axis of said fixing ring;

pre-engaging an annular hoop on the guide wall of said fixing ring, the inside diameter of the hoop being substantially equal to the outside diameter of said fixing ring;

placing a subassembly comprising said dispenser member, said fixing ring, and said hoop on said neck of said receptacle;

exerting a first force F1 on the hoop which bears against the guide wall of said fixing ring and urges said fixing ring onto said neck of the receptacle, said snap-fastening means splaying apart under the effect of the force F1 prior to snap-fastening to said neck of the receptacle; and

exerting on said hoop a second force F2 that is greater than the first force F1, said second force F2 being sufficient to cause said hoop to be moved down said ring and engaged in a force fit on said fixing ring at a final position, said hoop thus preventing said snap-fastening means of the fixing ring from splaying apart.

26. A method of fixing a dispenser member to the enlarged flange on the neck of a receptacle containing a substance to be dispensed, the method comprising the following steps:

placing an annular fixing ring on said dispenser member, said fixing ring being provided at one end with snap-fastening means and at its opposite end with a guide wall extending in line with said snap-fastening means parallel to the longitudinal axis of said fixing ring;

pre-engaging an annular hoop at an initial position on the guide wall of said fixing ring, said hoop having an annular side wall with an inside diameter substantially equal to the outside diameter of said fixing ring, said hoop having on the inside face of its side wall at least one projection extending over at least a fraction of the height of said side wall, the inside diameter of the hoop at said at least one projection being slightly less than the outside diameter of said fixing ring, said hoop being pre-engaged on said guide wall in the position where the bottom end of said at least one projection of said hoop bears against the top end of said guide wall of said fixing ring;

placing a subassembly comprising said dispenser member, said fixing ring, and said hoop on said neck of said receptacle;

exerting a first force F1 on the hoop which bears against the guide wall of said fixing ring via

said bottom end of said at least one projection and
which pushes said fixing ring against the neck of the
receptacle, said snap-fastening means splaying apart
under the effect of the force F_1 prior to snap-fastening
5 to the enlarged flange of said neck of the receptacle;
and

exerting on said hoop a second force F_2
greater than the first force F_1 , said second force F_2
being sufficient to cause said hoop to be moved down
10 said ring and engaged in a force fit on said fixing ring
at a final position, said hoop thereby preventing said
snap-fastening means of the fixing ring from splaying
apart.

add
a27